

Reeves

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Reeves[®]

CREATES
A SEVENTH
GENERATION
COMPUTATION
SYSTEM
REAC 600

THE MOST ADVANCED COMPUTATION SYSTEM IN THE WORLD—FOR PRODUCT ANALYSIS AND SYSTEMS SIMULATION CAPABILITY

Reeves® REAC 600

FEATURING—HYBRID CONFIGURATION • ALL SOLID STATE CONSTRUCTION • ALL ELECTRONIC OPERATION • HIGH SPEED

for diverse and unlimited application in

- AEROSPACE • AIRCRAFT • REFINERIES
- CHEMICAL PROCESSING • AUTOMOTIVE • MEDICAL
- RAILROADS • GAS PIPELINE • RESEARCH & OTHER FIELDS

The REAC 600 is a high speed, solid state, large scale computing system. This state-of-the-art system is based around a modern frame and is capable of expansion to the most powerful hybrid facility presently available.

All operating mode controls are electronically buffered so that the equipment can be remotely addressed and, therefore, easily subject to hybrid operation.

Human engineering and appearance, both considered vital in efficient operation of a modern facility, have been given high priority in the design of this equipment. Sloping front panels, centrally located controls, displays at eye level and patch boards that are visible from a seated position make operation of the REAC 600 easy, precise and unwearying.

All components and assemblies are of the highest quality and have been prototype field tested. As an added advantage, the performance specifications are consistent with the claim of highest precision equipment.

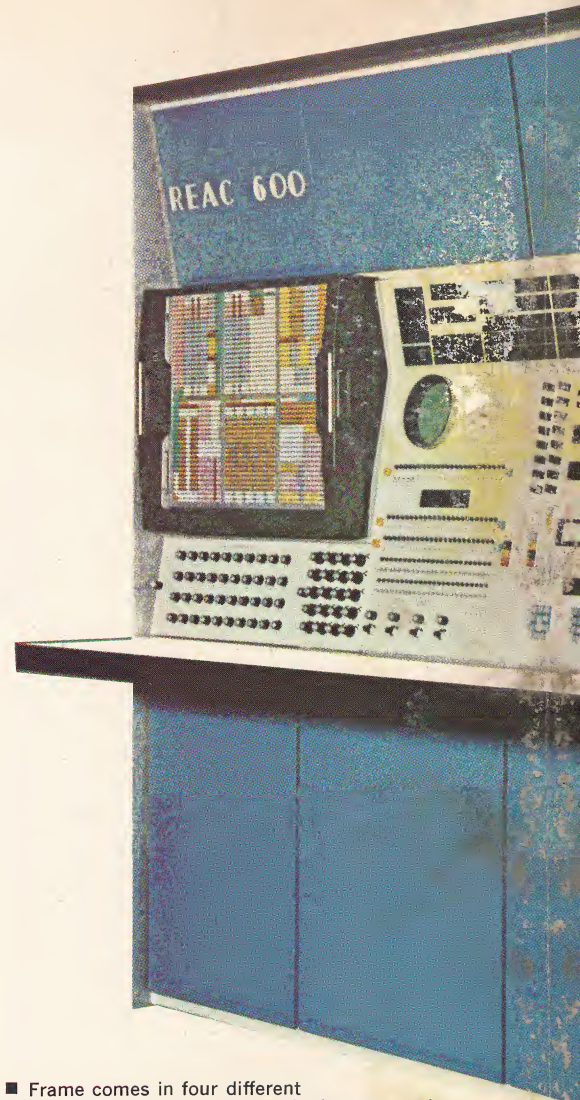
OPERATIONAL AMPLIFIER SPECIFICATIONS

The REAC 600 operational amplifier is an all solid state system with a solid state chopper. All amplifiers used in the REAC 600 Computation System are completely interchangeable throughout the system.

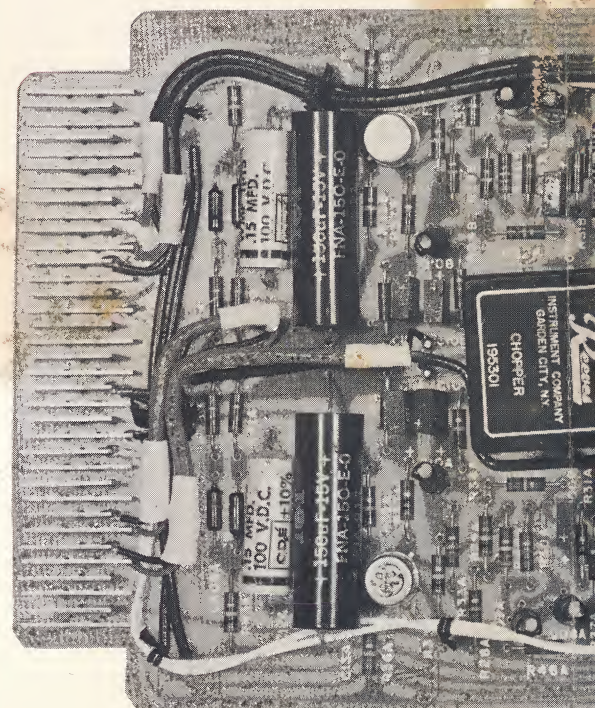
The operational amplifier features and specifications are as follows:

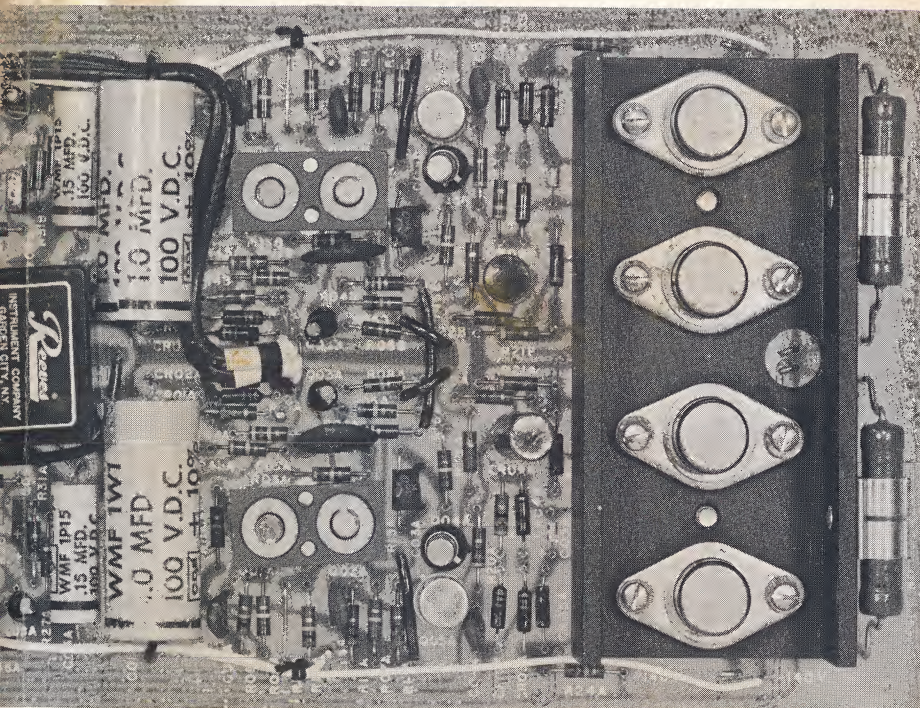
- Solid-state construction, short-circuit proof.
- Maximum output voltage: ± 120 volts.
- Maximum output current: 50ma at ± 100 volts.
- The following measurements are for a 1 Meg/1 Meg amplifier with two gains of 10 grounded as per Simulation Council Standards:
 - Bandwidth: Minimum — 100 KC
Maximum — 125 KC
 - Phase Shift at 1kc: Best case 0.05°
Worst case 0.16°
 - Noise within a 30kc band pass 3MV P-P
Peaking: 1 db maximum.
Gain Error at 1 kc: 0.5% maximum
Recovery time from overload:
1 second typical
less than 5 microseconds in high speed operation
Velocity limiting: 20×10^6 volts/second
Gain: 0.5×10^8

Amplifiers are stable with any value of output Capacity loading, and for any value of resistance capacitor or diode feedback. All amplifier measurements are made using the Simulation Council's recommended measuring procedure.



■ Frame comes in four different basic colors. Special colors can be incorporated.
Power Requirements—115 VAC, 60 Cycle, single phase, 60 Amps. Total Power Consumption 8 KVA
Physical Dimensions—Height: 77½"; Width: 95¼"; Depth: 36"
Environment—Temperature—55° to 90°F. at 90% Humidity





ANALOG COMPLEMENT

Description	Fully Expanded
REAC Model 600 Analog Computer with workshelf, solid state Operate, Hold and Reset, analog and logic patchboard systems, oven, 5" Oscilloscope, all analog and logic operating controls, all analog and logic externals, interconsole trunks, all power and reference supplies for full expansion, precision voltage divider, time scale system, digital voltmeter, overload system and All Wiring To Complete Expansion As Listed In Column "Fully Expanded" is Included In System	1
Operational Amplifiers	
Integrators—each with electronic mode control and four (4) time scales	60
Summers	60
Track and Store Networks for Summers	60
Inverters	180
Total Amplifiers	300
Attenuators	
Potentiometers	240
Multipliers	
Multipliers	84
Diode Function Generators— Eleven segments	24
Fixed Trigonometric Generators	12
Electronic Resolvers	
Electronic Resolvers	6
Limiters	
Limiters	30
Function Switches	
SP3T	16
Noise Generator	
Dual Range Noise Generator	1
Passive Elements	
Resistors	8
Speed Scale Capacitors	8
Fixed Function Cards	24
Analog Comparators	30
Analog Input Trunks	90
Analog Output Trunks	90
Logic Input Trunks	51
Logic Output Trunks	51
Intra-Console Trunks	18
Pulse Generator Module	1
Control A	1
Control B	3
General Purpose Logic Gates	96
Dual Quad Counter & Shift Register Module	9
Digital Level Generator	1
Power Gates	1
Consisting of—36 Fan-out of 25	
Digital Function Switches	1
Consisting of—	
4 Clocked Switches	
4 Unclocked Switches	

Software is available for Hybrid installation for most of the present day scientific digital computers.

HIGH SPEED
REAC 600

HYBRID
CONFIGURATION

ALL SOLID
STATE
CONSTRUCTION

ALL ELECTRONIC
OPERATION

REAC 600—VERSATILE COMPUTATION SYSTEM

The Hybrid Configuration, Solid State REAC 600 has been designed as a multi-purpose Computation System—with unlimited application in Product Analysis and Systems Simulation Capability. Its versatility provides the results for a vast array of requirements. One of those requirements may be yours.

For more information about how REAC 600 can work for you, please contact your nearest Reeves Office:

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